20000712.qrp v01_n880.qrl.20000712

Date: Wed, 12 Jul 2000 19:03:12 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1880

QRP-L Digest 1880

Topics covered in this issue include:

  1) [74895] Re: ohr 100a
     by "Phinizy, William" <wphinizy@filenet.com>
  2) [74896] Re: SOP RX
     by Pete Burbank <plburbank@kih.net>
  3) [74897] Solar condx 7-11
     by "Paul Harden, NA5N" <na5n@rt66.com>
  4) [74898] Re: SM protoboards
     by Mighty Mik <mightymik2@home.com>
  5) [74899] Re: Modification of KAMPlus TNC for PSK-31 Keying
     by "Chuck Carpenter" <w5usj@globeco.net>
  6) [74900] Re: power strip ideas?
     by "JC Smith" <jc-smith@worldnet.att.net>
  7) [74901] 1999-2000 Foxhunt results?
     by Steve Niles <kd5aij@wt.net>
  8) [74902] Re: Windom question
     by Nv4t@aol.com
  9) [74903] GM....Calling CQ 14.058.0
     by "Andy GM0NWI" <Gm0nwi@tesco.net>
 10) [74904] PC Board making
     by n5ib@juno.com
 11) [74905] Re: ANTS: Ground Rffect
     by "James R. Duffey" <jamesd1@flash.net>
 12) [74906] RE: FOX Re: Hunt details for Thursday's hunt
     by "Marshall Emm" <mgemm@mtechnologies.com>
 13) [74907] etching pcb hint
     by James Skalski <jskalski@localnet.com>
 14) [74908] attenuator construct.
     by Robert McAtee <w5tnj@camalott.com>
 15) [74909] Re: Modification of KAMPlus TNC for PSK-31 Keying
     by NB6M@aol.com
 16) [74910] RE: [FIELD] Wire Winders
     by Richard Powell <ripowell@mpna.com>
 17) [74911] Re: Modification of KAMPlus TNC for PSK-31 Keying
     by NB6M@aol.com
 18) [74912] Tentec 1380 built.....Now what?
     by tailfeathers@juno.com
 19) [74913] Article Activation!

by "K7FD-N7SG" <cqdx@teleport.com>
20) [74914] Re: etching pcb hint
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
21) [74915] BLT schematic & assy instructions?
by "George Heron N2APB" <n2apb@erols.com>
22) [74916] FS: Mizuho 10M DX Handy HT
by Patrick Armstrong <aa7fg@gte.net>
23) [74917] NORCAL "CB Slider" VFO Inductors
by "Mike WA8BXN" <hubby2k@hotmail.com>
24) [74918] FW: Geomagnetic Storm Warning
by "Ed Tanton" <n4xy@att.net>
25) [74919] QRP-L & New Manager
by "Paul Harden, NA5N" <na5n@rt66.com>
26) [74920] Re: QRP-L & New Manager
by Pete Burbank <plburbank@kih.net>
27) [74921] Re: 2N2/40 Lives!
by Rick Sealey <rsealey@InfoAve.Net>
28) [74922] Re: QRP-L & New Manager
by Michael Bower <bowerm@ix.netcom.com>
29) [74923] Power Cords
by "Karl F. Larsen" <k5di@zianet.com>
30) [74924] bicycle mobile with K2 photos online
by Jim Cluett <w1pid@yahoo.com>
31) [74925] Re: QRP-L & New Manager
by "Manager QRP-L" <manager@astro.cc.lehigh.edu>
32) [74926] RE: OT..... Switchable Attenuator Project
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
33) [74927] Adjusting power level on the HR2600
by Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
34) [74928] A-1 Operator
by Bcieslak@ra.rockwell.com
35) [74929] CB Slider - corrected version
by Bruce Muscolino <w6toy@erols.com>
36) [74930] Re: QRP-L & New Manager
by Bob Hightower <nk7m@extremezone.com>
37) [74931] Re: ANTS: Ground Rffect
by Bill Coleman AA4LR <aa4lr@radio.org>
38) [74932] CW Software
by David Heintzleman <pstrdave@kdsi.net>
39) [74933] Thanks
by Mercxx@aol.com
40) [74934] Re: CB Slider - corrected version
by Bruce Muscolino <w6toy@erols.com>
41) [74935] Re: CW Software (Mac)
by "Chuck Carpenter" <w5usj@globeco.net>
42) [74936] LOGIKEY K-3 Super CMOS keyer
by Charles K Brown <n4so@juno.com>
43) [74937] Antenna Question

by "John Pate" <lighthousedx@hotmail.com>
44) [74938] Re: Antenna Question
by Monte Stark <ku7y@dri.edu>
45) [74939] Re: Antenna Question
by "George , W5YR" <w5yr@att.net>
46) [74940] Re: Antenna Question
by John Wagner <john@neknetwork.com>
47) [74941] Question about radials
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
48) [74942] Postpone
by Dean W Manley <kh6b@juno.com>
49) [74943] Re: Antenna Question
by "George , W5YR" <w5yr@att.net>
50) [74944] RE: Antenna Question
by "steve" <sblary@bellsouth.net>
51) [74945] Re: Question about radials
by "George , W5YR" <w5yr@att.net>
52) [74946] A Piece of Amateur Radio History
by "J. Ervin Bates" <w8erv@email.msn.com>
53) [74947] Re: Question about radials
by Dave Sjolin <sjolin@swbell.net>
54) [74948] Re: Question about radials
by John Kuklewicz N7ZN <kukl@cybrquest.com>
55) [74949] Re: Antenna Question
by John Wagner <john@neknetwork.com>
56) [74950] Re: Question about radials
by Bill Coleman AA4LR <aa4lr@radio.org>
57) [74951] Major Flare today too!
by "Paul Harden, NA5N" <na5n@rt66.com>
58) [74952] Re: A Piece of Amateur Radio History
by Richard Matthews <prm@hiwaay.net>
59) [74953] Nick Kennedy, WA5BDU
by Bob Patten <n4bp@bc.seflin.org>
60) [74954] How to unsubscribe?
by Wb8siw@aol.com
61) [74955] ANT: Ladderline
by hattonte@gdls.com
62) [74956] Re: Major Flare today too!
by Joe Reed <joe@n9jr.dyndns.org>
63) [74957] Re: SM protoboards
by "Steven Weber" <kd1jv@moose.ncia.net>
64) [74958] Re: ohr 100a
by "Phinizy, William" <wphinizy@filenet.com>
65) [74959] CNN: Solar eruptions could spark 'northern lights' this week
by Dave Sjolin <sjolin@swbell.net>
66) [74960] QRP ARCI MilesPerWatt Award
by "K7FD" <cqdx@teleport.com>
67) [74961] Summer Foxhunt #2

    by Howard Myers <howardw7ilw@cableone.net>
 68) [74962] FOX: HUNT NUMBER TWO - PRELIM LOG.
    by tom palmer <n1tp@worldnet.att.net>
 69) [74963] [FIELD OPS] David Crocket State Park
    by Richard Powell <ripowell@mpna.com>
 70) [74964] Re: FS: FT-990DC & FT-530 w/acc - update
    by Jay Freeman <jay@j-freeman.net>
 71) [74965] Re: [FIELD OPS] David Crocket State Park
    by Phil Wheeler <w7ox@earthlink.net>
 72) [74966] Re: Ladderline
    by "John Moriarity" <k6qq@hdo.net>

Date: Tue, 11 Jul 2000 16:01:59 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [74895] Re: ohr 100a
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F02BE5F6F@hq-expo2.filenet.com>

I will probably be corrected on this point by more astute members of this group (i.e., almost anyone), but I think you have to live with it. My OHR-100A exhibited the same characteristics; I found a decent solution/compromise was to set the dial so that 7040 KHz was dead on. However, that was before I upgraded to Extra. Then I reset it so that 7000 KHz was on the money. That way, I would creep out of the lower end of the band.

The 100A's are good little rigs, but the dial numbers were more or less reference points.

Another $75-80 solution is to by the accompanying DD-1 -- that way you're sure.

W. H. Phinizy, K6WHP
Principal Engineer
FileNET Corporation

Date: Tue, 11 Jul 2000 19:22:51 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [74896] Re: SOP RX
Message-ID: <3.0.32.20000711192247.00a0bc1c@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

George and Gangue,
The SOP RX looks like a fine design and a great effort by all involved! My pen overheated while writing the check. I'm curious whether anyone has made one work on 160 Meters.
73 to all
Pete NV4V

Date: Tue, 11 Jul 2000 17:49:40 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [74897] Solar condx 7-11
Message-ID: <Pine.SUN.4.10.10007111729190.24030-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
We have been experiencing a MINOR GEOMAGNETIC STORM today. This will cause pretty rough conditions tonight on 40M.

We also had a MAJOR X1 FLARE today, which caused rocky conditions on all HF frequencies. The flare is now over, so the high absorption effects on the upper ham bands are over.

Wednesday and thursday, conditions should be very good on 20-10M, by virtue of the solar flux climbing to 225 today, raising the MUF and good skip propagation ... unless more flares occur tomorrow, which will increase the D-layer absorption.

Friday a MAJOR GEOMAGNETIC STORM is expected, when the shockwave of today's X1 flare arrives. More data will be available over the next two days as to the severity of this storm. It could go to a SEVERE storm and generate enhanced auroral activity. Too early for predictions just yet, though.

This weekend looks pretty grim :-(But, check the bands for unique opportunities, now that we're between the flare, and the shockwave arriving in a couple of days. 6M activity and sporaidic E will be coming and going over the next few days as well.

Comments on the NOAA report follows.

72, Paul NA5N

> JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

> SDF NUMBER 193 ISSUED AT 2200Z ON 11 JUL 2000

> IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100Z
> TO 11/2100Z:

> SOLAR ACTIVITY WAS HIGH. REGION 9077 (N19E31) PRODUCED
> AN M5/2B EARLY IN THE PERIOD AT 10/2142Z. AN ASSOCIATED TYPE II AND
> TYPE IV RADIO SWEEP WAS ALSO OBSERVED.

The Type II radio sweep is caused by the shockwave from the flare passing through the sun's magnetic field lines, producing radio energy. Thus, it indicates a strong shockwave was released with this flare.

> REGION 9077 ALSO PRODUCED AN M4 AT 11/1141Z
> FOLLOWED QUICKLY BY AN X1 AT 11/1310Z, BOTH ASSOCIATED WITH A LONG
> DURATION 1B FLARE. A LARGE CENTIMETRIC BURST ALSO OCCURRED WITH
> THIS FLARE INCLUDING A 1600 SFU TENFLARE.

The long duration X1 flare means it released alot of energy in the form of electrons, x-rays, etc. towards the earth ... all the speed of light stuff, which kept HP/VHF conditions erratic for several hours. The "centimetric burst" (meaning centimeter wavelengths, or ~1 GHz) also indicates an escaping shockwaves and very high energies related to this flare.

> IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
> MODERATE TO HIGH. REGIONS 9070 AND 9077 WILL CONTINUE TO PRODUCE
> M-CLASS WITH A GOOD CHANCE FOR X-CLASS EVENTS.

More major flares may yet occur over the next few days.

> IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z:
> THE GEOMAGNETIC FIELD WAS UNSETTLED TO MINOR STORM. DISTURBED
> CONDITIONS CONTINUED THIS PERIOD FOLLOWING YESTERDAY'S SHOCK AT
> 10/0558Z.

This shockwave is from the first flare/CME on 7 JUL.

> A SECOND SHOCK WAS OBSERVED ON THE ACE SPACECRAFT AT
> 11/1125Z, ENHANCING THE EXISTING STORM.

This is the wavefront of high density particles discussed on my earlier post.

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
> EXPECTED TO BE UNSETTLED TO ACTIVE WITH ISOLATED MINOR STORMING
> PERIODS AT HIGH LATITUDES FOR THE FIRST TWO DAYS OF THE FORECAST
> PERIOD. GEOMAGNETIC STORMING AT MINOR TO MAJOR STORM LEVELS IS

> EXPECTED LATE ON DAY TWO THROUGH DAY THREE IN RESPONSE TO THE RECENT
> CME'S.

In other words, about the time our magnetic field settles down from
today's storm, the effects of today's X1 flare will hit us late thursday
or friday to keep minor to major storm conditions in effect.

> IV. PENTICTON 10.7 CM FLUX
> OBSERVED   11 JUL 225 <-------- pretty HIGH!
> PREDICTED   12 JUL-14 JUL 220/210/205
> 90 DAY MEAN   11 JUL 182

> V. GEOMAGNETIC A INDICES
> OBSERVED AFR/AP 10 JUL 018/019 <--- yesterday's A-index
> ESTIMATED AFR/AP 11 JUL 028/030 <--- today's ESTIMATED A-index

> PREDICTED AFR/AP 12 JUL-14 JUL 020/025-025/025-050/050
                                    ^^^   ^^^   ^^^
                                    WED   THU   FRI --- YUCK
                                                    MAJOR GMS STORM LEVELS

Date: Tue, 11 Jul 2000 16:50:19 -0700
From: Mighty Mik <mightymik2@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74898] Re: SM protoboards
Message-ID: <4.3.2.7.0.20000711164412.00a9f290@24.0.0.70>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 04:56 PM 7/11/00 -0500, you wrote:
>True..
>   A stamp for a few copies would be the best. What would you use for
> marking material?

well...i think that there are a lot of inks (silkscreen included)that
could act as a resist. Fortunately, there is an art supply store nearby,
and you can take these inks, and spread them out with a roller, and use
that as a stamp pad.

> >Too messy for just one board.
> >
> >

> >
>Paul
>kd5dbo

Date: Tue, 11 Jul 2000 18:51:07 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: w7ox@earthlink.net, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74899] Re: Modification of KAMPlus TNC for PSK-31 Keying
Message-ID: <3.0.2.32.20000711185107.00930af0@mail.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Phil and all,

>Hmmm .. wonder if Kantronics will offer a PSK-31 firmware
>upgrade? With its popularity, that would seem to make sense!

I asked the question "will they support PSK-31" and got a positive but
non-committal response.

Chuck Carpenter, Point, Rains County, Texas -- EM22cv, RARA #003
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275

Date: Tue, 11 Jul 2000 18:31:04 -0500
From: "JC Smith" <jc-smith@worldnet.att.net>
To: <dodgeboy@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [74900] Re: power strip ideas?
Message-ID: <04bd01bfeb93$c6ae6120$1766480c@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Dave,

I've made various QRP versions of the MFJ-type power strips out of little
Radio Shack (or similar) plastic project boxes. My favorite has become the
one I made out of an RCA jack terminal strip. It is two jacks wide by four
jacks long. Just fits inside the little plastic box along with a fuse (you
have to use one of the little sub-agc fuses to find a holder that will fit

in the box, or you could install the fuse external). I like the RCA jacks because I probably have 100 spare audio patch cords laying around gathering dust, as does anyone who was ever into stereo systems. Yes, there is a danger of shorting out the plugs if you are using RCA on both ends. If you like to leave a spare cord or two plugged into the strip you can just cover the hot plugs with unconnected female connectors. On the other hand, you are probably most often going to be cutting the cables in half and installing various coaxial power connectors on the "gear end" to fit whatever you are powering. The internal construction is similar to how MFJ does it in their high power strips. I've powered every 12-V accessory I own out of mine, and every QRP rig (not all at the same time... not enough jacks;-). Never had a problem. One blown fuse about four years ago at FD. I keep a spare fuse taped inside the box.

I'm away from home or I would send you a jpeg. It's all in a box not much bigger than an Altoids tin (a bit deeper) and has outlets to power eight devices.

72 - JC,k0hps@amsat.org

----- Original Message -----
From: Dave Benham <dodgeboy@mindspring.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Friday, July 07, 2000 8:49 PM
Subject: power strip ideas?

> I am looking for some ideas as to how to handle plugging multiple 12VDC
> devices into a common power source (most likely a battery) when operating
> "in the field". Now, I don't mean backpacking or anything where weight or
> size is a major consideration. I go to local parks periodically with a
> couple of QRP buddies so I don't have that far to lug stuff.
>
> Over the years, I have tried to commonize my power connectors in the shack
> with round, two-pin Cinch-Jones connectors -- males on the rigs, females
on
> the power supply. The mass of wires converging on the power supply works
OK
> at home, but somehow, that's not all that convenient when in the field. I
> don't like alligator clips on batteries because they always slip off. I
had
> thought of making up a power strip of some kind -- maybe with banana
jacks,
> maybe with panel mount Cinch-Jones connectors -- and hooking the strip to
> the battery then all the individual connections to the jacks (I say
"all" --
> it is the rig, maybe a keyer, maybe an LDG Z-11, etc.). Does anyone out
> there have some neat ideas?

>
> Thanks,
> Dave K8TRF
>
> P.S. -- most of the batteries I use have what I call spade lug connectors,
> but I also might use a smallish lead-acid with the large round lugs (like
a
> car battery).
>
>

Date: Tue, 11 Jul 2000 19:07:56 -0500
From: Steve Niles <kd5aij@wt.net>
To: qrp-l@Lehigh.EDU
Subject: [74901] 1999-2000 Foxhunt results?
Message-ID: <396BB6DC.DEF261DD@wt.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Where is the 1999-2000 equivalent of this page?:

http://www.oakland.edu/~prvalko/foxtext.htm

73
Steve N5EN

Date: Tue, 11 Jul 2000 20:01:30 EDT
From: Nv4t@aol.com
To: w7ox@earthlink.net, qrp-l@lehigh.edu
Subject: [74902] Re: Windom question
Message-ID: <9.802b436.269d0f5a@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

If y'all can work 'em, your antenna is a good one!!!!

73, Bill nv4t

Date: Wed, 12 Jul 2000 01:03:59 +0100

From: "Andy GM0NWI" <Gm0nwi@tesco.net>
To: "American QRP List" <qrp-l@lehigh.edu>
Subject: [74903] GM....Calling CQ 14.058.0
Message-ID: <000501bfeb94$aeba5f00$7d17ac3e@q1n3l2>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guy`s..!!

I will be calling CQ for US/VE qrp station`s with my Argosy and 2 watts to a 2el around the 0000z time this evening...

Don`t know how well I`d fare, but considering the recent FLARE we`ll just have to see..

If you hear my qrp signal, please give me a call...I`ll be more than glad to work you all, considering the past success
here...

72s de Andy   gm0nwi@tesco.net
A.R.S. GM0NWI
"Long Live QRP..!"   "All The Best Wishes From Bonnie Scotland.."

 GQRP No.9576   "The Weakest Station In The Nation.."
 QRP-L No.2165
  ICQ No.31899603   "It is vain to do with more..."
                                                what can be done with less.."

Date: Tue, 11 Jul 2000 20:05:51 EDT
From: n5ib@juno.com
To: qrp-l@Lehigh.edu
Subject: [74904] PC Board making
Message-ID: <20000711.190505.8215.2.N5IB@juno.com>

I just finished up a little SMT version of a VE3DNL marker. I etched a small board about 1" square with the following method:

1. Laid out the pattern on the computer using Corel Draw. The 4060 chip has leads on 50 mil centers. Corel gives good dimensional control. Many other graphic application do as well. I made sure everything was straight lines.

2. Printed the layout with an inkjet printer on a clear ink jet mailing label. The clear labels have a plastic film base which stands up the etchant very well.

3. Stuck the label onto a piece of clean PCB stock and used a hobby knife (with a fresh, new blade) to cut around (freehand) the pattern and peel away the label film leaving only the traces.

4. Put the board and some ferric chloride in a GladWare (tm) throwaway plastic food container. It has a very tight-fitting lid that makes it spill proof.

5. Floated the closed container in a tray of hot water and agitated it every now and then.

6. When done, removed the label film from the traces and scrubbed the board well. Result - good board and a nice tiny marker generator to build into a rig.

72
Jim N5IB

_____
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http://dl.www.juno.com/get/tagj.

Date: Tue, 11 Jul 2000 18:07:37 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <n0tu@webaccess.net>, qrp-l <qrp-l@lehigh.edu>
Subject: [74905] Re: ANTS: Ground Rffect
Message-ID: <B59112E9.1934%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Steve - I think that you should raise the antenna. I would do it in a minute if I were you. Take a day off from work to do it. Most of the replies have indicated the advantages of lower angle of radiation.

There are some subtle effects you should be aware of, both good and not so good.

1. You will prabably notice a reduction in noise. Raising the antenna will get you further away from local noise sources.

2. (not a repeat of 1) You will probably notice a reduction in noise. By getting rid of the high angle radiation, you will get rid of propagation of thunder storm noise (spherics) that is nearby.

3. The inverted vee configuration will create an less directional pattern. This can be good or bad, depending what you want out of an antenna.

4. With antennas longer than a half wavelength, there may be some disadvantages in using the antenna as an inverted vee. That is because for the longer antennas the current maxima are not at the center, but further down the antenna. Thus they are closer to the ground and cause some high angle radiation. Therefore you may wish to replace your EDZ with parallel dipoles/trap dipoles. These will have the current maxima at the peak of the support.

I hope that this helps. - Dr. Megacyle KK6MC/5
--
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Tue, 11 Jul 2000 18:16:19 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: Mike Gipe <mgipe@reliablemeters.com>, qrp-l@lehigh.edu
Subject: [74906] RE: FOX Re: Hunt details for Thursday's hunt
Message-ID: <396B6473.22525.164AE48@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

>>But of course, it's only a demo, and won't count for points.<<

Of course-- wouln't want to take unfair advantage!. We'll just do the demo at 0200 (shouldn't take long) and then I'll just take my chances with all the other hounds.

Marshall Emm, N1FN
Milestone Technologies, Inc.

(303) 752-3382
http://www.mtechnologies.com

Date: Tue, 11 Jul 2000 20:19:55 -0400 (EDT)
From: James Skalski <jskalski@localnet.com>
To: qrp-l@Lehigh.EDU
Subject: [74907] etching pcb hint
Message-ID:
<Pine.LNX.4.20.0007112014590.1456-100000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

People use various containers for etchant. I like to use a zip lock plastic bag. I can put a small quantity of etchant in the bag. Then I zip it closed and place it under hot running water. Once it is hot, I put the unetched pcb and make sure the board is covered with etchant. I then place the bag in some warm water. Occasionally swirling the etchant over the board until the exposed copper is etched off. I then rinse in the same bag. .....works for me :)

73,

Jim n2go

Date: Tue, 11 Jul 2000 19:52:39 -0500
From: Robert McAtee <w5tnj@camalott.com>
To: qrp-l@Lehigh.EDU
Subject: [74908] attenuator construct.
Message-ID: <3.0.3.32.20000711195239.007e9320@mail.camalott.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I built the attenuator from the 14th edition, (1983), of the ARRL Antenna Book. Chapter 15 page 17. It worked great..... ==Mac== AG5F
w5tnj@camalott.com

Date: Tue, 11 Jul 2000 20:57:22 EDT
From: NB6M@aol.com
To: w7ox@earthlink.net
Cc: qrp-l@lehigh.edu
Subject: [74909] Re: Modification of KAMPlus TNC for PSK-31 Keying

Message-ID: <b7.4d1594f.269d1c72@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Phil, and gang,

Thank you for your comments. I just wanted to keep things simple, and since I keep the TNC hooked up to my computer all the time and didn't want to have to undo that cable and connect another one just to be on PSK-31, putting the T/R transistor inside the TNC and taking advantage of the unused DTR line and the audio lines already going to the transmitter mike input provided for a very workable solution. This way I can operate on any of the digital modes without having to do more than flip a couple of switches.

Yes, it would be nice if they (Kantronics) would provide for an upgrade that supported PSK-31. It is a very interesting mode, and is a lot of fun.

Also, I use Jvcomm32 quite often to download weatherfax pictures off the air with my ham radio, and all it requires is a receiver audio line going to the mike input of the laptop. So the receiver audio line to the computer does double duty as well.

72

Wayne NB6M

Date: Tue, 11 Jul 2000 21:06:02 -0400
From: Richard Powell <ripowell@mpna.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [74910] RE: [FIELD] Wire Winders
Message-ID: <01BFEB7B.D257FDF0.ripowell@mpna.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

re: something the same concept as a tape measure,,, but better for wire (qrp wire)

Thanks for all the info:
here is a summary:

Kite String accessories,
Flat wire winding boards,
Chalk line tool,
Camping Clothesline reels,
mounting a set of cleats on the mast.

Radio Shack SWL antenna reels.

For an initial test, i have obtained the Camping clothesline reels from Wallmart, and
have wound 60 feet for insulated, 20 gauge stranded wire. a smaller gauge wire may ultimately be required, but for now,,,,, we'll go with what we got...

thanks everyone for your resposes.....
72 & oo's
/rick
-
Richard Powell, WB6JBM, TENTEN 13044, QRP-L 1118,
FPQRP-2 http://www.mpna.com/fpqrp
 QRP-ARCI 10414
Senior Network Engineer, Belcan IT Division
MCSE, CNA.
ripowell@mpna.com   http://www.mpna.com/ripowell
ICQ 39245532, AIM wb6jbm

Date: Tue, 11 Jul 2000 21:19:34 EDT
From: NB6M@aol.com
To: w5usj@globeco.net
Cc: qrp-l@lehigh.edu
Subject: [74911] Re: Modification of KAMPlus TNC for PSK-31 Keying
Message-ID: <e6.7f72e5a.269d21a6@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Chuck, and all,

I've just learned that UT2UZ (Nick, the author of Digipan and MixW)
is working on a new release of the MixW that has an interface to the KAM+
built-in. It is not yet implemented and tested and I am not sure if he plans
to add it to the freeware Digipan or not. We will have to keep our eyes open
for that one.

Also, I suspect that a similar T/R switching and transmitter audio "mod"
could be implimented with any other type of TNC that anyone already has
hooked up to his or her computer and ham rig, so the ability to work all or
most of the digital modes is maintained while keeping the cabling and
switching to a minimum.

72

Wayne NB6M

Date: Tue, 11 Jul 2000 21:27:54 -0400
From: tailfeathers@juno.com
To: qrp-l@lehigh.edu
Subject: [74912] Tentec 1380 built.....Now what?
Message-ID: <20000711.213531.-4071897.1.tailfeathers@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Well as it says the 1380 is built and now I am trying to figure out how to align it. The first step was to align the side tone, speaker voltage. It seemed to go as described but am doubting myself until it sinks in a bit.

Receive alignment is pretty straight forward, pretty sure it's good to go.

Rit to vfo alignment will take me a while since you need 2 receivers and it's late tonight so I'll try tomorrow night.

I do hear a problem though. When I turn the rig on I have good receive audio, can hear stations just fine and then about 2 or 3 seconds I hear a high pitch ocillation appear and it is very high pitched. The longer it's on the fainter it gets. When the volume is all the way down it can still be heard. Hopefully it's an alignment thing.
Gary
n8gsj
____
YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
http://dl.www.juno.com/get/tagj.

Date: Tue, 11 Jul 2000 18:32:10 -0700
From: "K7FD-N7SG" <cqdx@teleport.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, <elecraft@qth.net>
Subject: [74913] Article Activation!
Message-ID: <001101bfeba1$0133d7a0$55231ad8@default>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

QRO operating does have a purpose afterall! ;)

73 John K7FD and Annette N7SG

>Dear cqdx@teleport.com,

>Your article, Marry your RFI Problem!, has been approved for inclusion on
>the eHAM.net home page.
>
>Your article can be viewed at the following URL:

>http://www.eham.net/articles/973

Date: Tue, 11 Jul 2000 22:05:27 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l@lehigh.edu
Subject: [74914] Re: etching pcb hint
Message-ID: <3.0.6.32.20000711220527.0079ca70@vmspop.rit.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:19 PM 7/11/00 -0400, you wrote:
>People use various containers for etchant. I like to use a zip lock
>plastic bag. I can put a small quantity of etchant in the bag. Then I zip
>it closed and place it under hot running water. Once it is hot, I put the
>unetched pcb and make sure the board is covered with etchant. I then place
>the bag in some warm water. Occasionally swirling the etchant over the
>board until the exposed copper is etched off. I then rinse in the same
>bag. .....works for me :)

Folks,

I've taken to just mixing the stock ferric chloride solution from Radio Shack 1:1 with hot tap water. The thinner solution agitates more easily, it's easier to see the progress without lifting the board from the solution, and it makes a bottle of etchant go farther. And it still etches faster than stock solution at room temperature.

Also, a container that lets you stand the board on edge will allow the copper-

laden etchant to fall to the bottom, constantly bringing fresh solution in contact with the board.

Sounds like there are about as many etching "recipes" as there are antennas!

Dave

Date: Tue, 11 Jul 2000 23:38:51 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [74915] BLT schematic & assy instructions?
Message-ID: <005b01bfebb2$b4d00160$5c5daccf@ire.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

WOnder if anyone has posted the schematic and assembly instructions for the BLT? I've misplaced the paperwork that came with my BLT Tuner and I dearly want to get it built in time for an NJQRP Club meeting this Saturday. (Doug Hendricks is stopping in at our meeting during his US Summer Tour vacation!)

If nothing is on the web anywhere, I wonder if someone would be kind enough to fax it to me? Please let me know and I'll send along my fax number.

Thanks so much.

72, George N2APB
  n2apb@amsat.org

Date: Tue, 11 Jul 2000 20:58:10 -0700
From: Patrick Armstrong <aa7fg@gte.net>
To: qrp-l@lehigh.edu
Subject: [74916] FS: Mizuho 10M DX Handy HT
Message-ID: <396BECD2.9F544BBC@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mizuho MX-28S 10M SSB/CW 2W QRP HT w/ manual in excellent physical condition and works perfect... A fun rig with the whip or external

antenna. Worked great for FD with lots of Q's using the whip! Rig is stock with coverage from 28.250-28.350MHz, $145.00 or best reasonable offer :-)...

Pat, AA7FG - Oregon...

Date: Wed, 12 Jul 2000 00:49:01 EDT
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [74917] NORCAL "CB Slider" VFO Inductors
Message-ID: <20000712044901.97656.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I have been looking at the documentation on the NORCAL web site for the "CB Slider" VFO and it seems that the four inductors L1-L4 are not in the parts list. There is discussion in the text that they had to be replaced by more modern components. L1 seems to be the described VFO tank coil but the other 3 are either 10 or 100 microhenries and it is not clear which is which. I have searched the web for other versions of the schematic without success. Can anyone help in the values of these inductors? Thanks!
73 - Mike WA8BXN

_____
Get Your Private, Free E-mail from MSN Hotmail at http://www.hotmail.com

---

Date: Wed, 12 Jul 2000 01:30:48 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "CW Reflector" <cw@qth.net>
Cc: "SWL Reflector" <swl@qth.net>, "Randy Tudor" <k4odl@att.net>, "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Subject: [74918] FW: Geomagnetic Storm Warning
Message-ID: <CKEGICNFDIMCEKEDCEHFGENLDCAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----
From: Space Weather News [mailto:express@spacescience.com]
Sent: Tuesday, July 11, 2000 7:19 PM
To: Space Science News

Subject: Geomagnetic Storm Warning

Space Weather News for July 12, 2000

Coronagraphs on board the Solar and Heliospheric Observatory recorded a fast-moving full halo coronal mass ejection on July 11th. Solar wind disturbances from that explosion and others could arrive at our planet within 48 to 72 hours. Forecasters estimate a 40% chance of major geomagnetic activity on July 14, 2000.

Also, the large sunspot group 9077 has developed a complex magnetic field configuration that could harbor energy for major solar flares. NOAA satellites recorded a powerful X1-class flare from the active region on July 11th. More such flares are likely.

For more information, including animations of today's CME, please visit http://www.spaceweather.com

SpaceWeather.com

You are currently subscribed to sciencenews as: n4xy@arrl.net
To unsubscribe send a blank email to
mailto:leave-sciencenews-70850V@spacescience.sparklist.com

Date: Tue, 11 Jul 2000 23:44:46 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [74919] QRP-L & New Manager
Message-ID: <Pine.SUN.4.10.10007112220090.26563-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
Following my post the otherday, I have received 50+ emails from concerned subscribers and a dialog with Jim, the Lehigh administrator. These emails clearly show there is a lot of fears and suspicions that there are some secret agenda's on QRP-L, attempts to shut down the list or transfer control over to other person(s) or organizations, etc.

I'm here to tell you these things have been straigtened out and all is well in QRP cyberland.

1. Jim is very committed to QRP-L. Inspite of a few warnings by a couple of posters "either straighten out or Jim's gonna shut down the list," they are NOT from Jim or any "inside" information. Jim wants to see QRP-L continue and flourish. He believes it has, and will continue to be responsible for the continued growth of the hobby. But he believes, as most of us do, it DOES need a little help and structure.

2. Jim simply needs some help with QRP-L, especially when these episodes of net rage or whatever crops up. Then he's got TWO problems: what to do with QRP-L to tame it back down, AND the scores of email he gets asking him to do something. He's a working stiff too, running 100+ other lists, and sometimes the timing of this turns into a big, giant headache.

3. Jim has asked Cla to be the QRP-L Manager. Basically a person to OVERSEE QRP-L, slap hands when needed, etc. and be the PRIMARY person to contact about the list to move some of this burden from Jim.

4. QRP-L has NOT become a MODERATED LIST. That is, every post is NOT cleared by Jim or Cla. It is still an automatic mail server. QRP-L certainly CAN become moderated *if* so warranted (and you know what I mean), but it is basically an open and free reflector to subscribers.

5. (My opinion): When the List Manager was first announced as an annonymous person, it kinda defeated the point of being the primary contact person by not knowing who it was; it removed accountability; and it fueled lots of these feelings that someone or some persons were secretly running QRP-L under the table.

6. (My opinion): I exposed Cla as the List Moderator, for which I do not regret. I believe between the tensions on QRP-L last couple of weeks, the suspicions about who is really running QRP-L, the new Manager's heavy-handed approach, and all the talk about starting new groups, etc., it was time to get these things worked out, including the identity of this new manager.

7. THIS IS IMPORTANT: There is NOBODY running QRP-L except Jim at Lehigh.

8. QRP-L is an OPEN reflector. It is NOT moderated. It DOES, however, need someone to oversee it and ensure it runs smoothly. Cla, our List Manager has that job.

9. I think with the overall fears of what was happening to QRP-L, Cla simply got off on the wrong foot. By that meaning, had he posted what he did under smooth sailing, nobody would have taken objection to it. But with tensions running high, his introduction as the List Manager

and "I am the sheriff" inadvertently came across stronger than it was really meant. The annonymous element just made it worse.

10. I consider all of this to be water under the bridge and wish to move on.

11. I SUPPORT JIM 100%

12. I SUPPORT CLA 100%
    I have had NO contact with Cla since my post; this is not the result of compromising or discussing things with him. He can verify this. I do believe we need someone in authority to keep the list running smoothly. I think Cla will do a good job. And I hope even he realizes his job will now be easier that everybody knows who he is. Perhaps he felt he wouldn't have any respect. Truth is, he's been a contributor to QRP-L for years, and should be respected for his contributions, concern for QRP-L, and a seasoned ham/QRPer.

13. Cla said "I am the ONE sheriff" for QRP-L. In ONE context, I do agree with this. I know FOR A FACT, that many people have been run off of QRP-L by several self-appointed net police that have to email posters because they think their post was dumb, stupid, or whatever. THIS NEEDS TO STOP! From here on out, CLA/LIST MANAGER is the ONLY person who has the authority to do this. (Well, maybe Jim too!). If you receive a nasty gram from anyone else, hit the DELETE key, disregard it, and don't loose any sleep. So in this contest, yes, Cla is the ONE sheriff you need to pay attention to. Do not be mislead by imitations.

14. I made reference to Paul Valko's website. I was simply pointing out that his website is where the new rules were posted. I did not mean to imply I felt Paul was part of this perceived "conspiracy" or any thing like that. Paul Valko is another subscriber that has made many valuable contributions to QRP-L and donated countless hours of time with FOX and other endeavors. I apologize to Paul if he, or anyone, felt I was criticizing him for simply making his website available.

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I know there has been lots of fears about the direction of QRP-L lately. I hope these things clears up your suspicions. QRP-L is run by Jim and Jim only, with Cla's help. Those are the ONLY two people you need to answer to. Jim is aware of these suspicions. QRP-L is a Lehigh list, and will remain that way.

I think we should give Cla a good chance to prove himself. With these issues "out on the table," I think Cla will be a good list manager, so let's give him the chance and respect he needs ... and I think we can all become better subscribers and benefactors ourselves.

Most of this is my opinions, I am not representing Jim, Cla or Lehigh, except for what I have learned. If Jim or Cla feels I misrepresented them, they are free to clarify it. Other than that, lets get back to the business of having fun, building radios, squirting some RF into the air, and being fraternal friends, even if we are off topic now and again, forget the virtues of Brasso or wonder what mosquito repellent is best :-)

72, Paul NA5N
QRP-L #038
Zombie #004

Date: Wed, 12 Jul 2000 02:36:51 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [74920] Re: QRP-L & New Manager
Message-ID: <3.0.32.20000712023648.0073c61c@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:44 PM 7/11/00 -0600, you wrote:
>Gang,
>Following my post the otherday, I have received 50+ emails from
>concerned subscribers and a dialog with Jim, the Lehigh administrator.
>These emails clearly show there is a lot of fears and suspicions
...ETC

Well said Paul! Are these people Klingons or from the Darkside
or what?? Good Grief...let the list run.
BTW got a copy of "Blindman's Bluff"....WOW!!!!
73 Pete NV4V IC1 (P1)P3) SS

Date: Wed, 12 Jul 2000 04:56:34 -0400
From: Rick Sealey <rsealey@InfoAve.Net>
To: ags@ieee.org
Cc: qrp-l@lehigh.edu
Subject: [74921] Re: 2N2/40 Lives!

Message-ID: <4.1.20000712044515.009ed480@mail.infoave.net>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"

Arth,

Well, I've seen 2N2/40s. What I really want to see is that garage. A 40M vertical dipole in the rafters of a garage?! Wow!!!

Rick - W4SEA
High Point, NC

At 11:20 AM 07/10/2000 -0700, you wrote:
>Preston Douglas, WJ2V, tells me that only 17 2N2/40s have been
>certified. Com'on now, I know there are more out there. Get'em on the
>air and certified. Really nice certificate from Preston.
>
>I need to put a more respectable antenna on mine but, as is, I've logged
>a good number of solid QSOs with a vertical dipole in the rafters of the
>garage.
>
---------- SNIP ----------
>72/73
>Arth W6AGS

Date: Wed, 12 Jul 2000 06:14:49 -0400
From: Michael Bower <bowerm@ix.netcom.com>
To: na5n@rt66.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74922] Re: QRP-L & New Manager
Message-ID: <396C4518.90F7A0DC@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks, Paul. Well said. I love this list and the people on it. It certainly made my re-entry into HF and my entry into QRP fun, rewarding and efficient. I ran out of fingers of the number of things that I've learned from everyone here.

Many, many, MANY thanks to all.

Michael N4NMR

"Paul Harden, NA5N" wrote:

> Gang,
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> concerned subscribers and a dialog with Jim, the Lehigh administrator.
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>
> 72, Paul NA5N
> QRP-L #038
> Zombie #004

Date: Wed, 12 Jul 2000 05:15:50 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [74923] Power Cords
Message-ID: <Pine.LNX.4.10.10007120504140.825-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

As a trailer person I have Primary Power around the trailer at
cigar lighters. They are fused at 20 amps at 12 vdc. But these are not
"Nice" connectors. I end the wire on the lighter plug with one or more RCA
female jacks. The radios all have a pigtail from whatever they need to a
male RCA plug. Plug them together and you have power. I have the same RCA
plug setup at home.

Yours Truly,

      - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Wed, 12 Jul 2000 05:39:13 -0700 (PDT)
From: Jim Cluett <w1pid@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [74924] bicycle mobile with K2 photos online
Message-ID: <20000712123913.28329.qmail@web2005.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Here's a pointer to the photos of
VE3JC's K2 bicycle mobile setup.
www.geocities.com/ve3jc/garyk2.html
pretty amazing!

_____
Do You Yahoo!?
Get Yahoo! Mail   Free email you can access from anywhere!
http://mail.yahoo.com/

Date: Wed, 12 Jul 2000 07:49:07 -0500
From: "Manager QRP-L" <manager@astro.cc.lehigh.edu>
To: <na5n@rt66.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74925] Re: QRP-L & New Manager
Message-ID: <016a01bfec00$28418180$0200000a@mcg.net>

>From a personal perspective there are a couple things that I could clarify.
But this would not serve the list. I would like to request that this thread
end and we keep on topic as we have so well over the last few days.

Again, if you have any questions, concerns or need assistence with the list
please email me at manager@qrp.lehigh.edu.

73 de Cla KA0GKC Manager QRP-L

Date: Wed, 12 Jul 2000 09:07:18 -0400

From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'wgabriel@dukeengineering.com'" <wgabriel@dukeengineering.com>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.edu>
Subject: [74926] RE: OT..... Switchable Attenuator Project
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C010@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Zack remembered:

Hi Dave and Ed,

Dec 1998 QST 64 Rugged, Compact Attenuators Improve (Technical Correspondence) Ostapchuk, Pete, N9SFX

Jun 1998 QST 62 A Rugged, Compact Attenuator, May 1998 QST (Feedback)

73--Zack W1VT

73,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: http://www.arrl.org
ARRL Technical Information Service: http://www.arrl.org/tis/

-----Original Message-----
From: wgabriel@dukeengineering.com [mailto:wgabriel@dukeengineering.com]
Sent: Wednesday, July 12, 2000 8:04 AM
To: w1rfi@arrl.org
Subject: RE: OT..... Switchable Attenuator Project

Ed - I am almost positive that this milled-out attenuator project was in QST
--
maybe in the last 2 years. I also remember some update from the author in a subsequent QST where he was offering the milled out "box" for sale.

Maybe I can find some time to look it up from my stored books.

Thanks -- Watson/WB4EXW

Date: Wed, 12 Jul 2000 09:22:52 -0400
From: Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
To: qrp-l@Lehigh.EDU
Subject: [74927] Adjusting power level on the HR2600
Message-ID: <v03110703b5922089a70d@[132.235.81.133]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,
     FYI: There is a pot on the main circuit that allows you to adjust the power output level from 1/2 watt RMS up to about 25-30 watts RMS in the 2900. It controls the power for all the modes. Here is the procedure:

     1. With the front of the radio facing you, take off the top cover

     2. Look near the upper left hand corner of the circuit board for a pot named, "CW Level", which is VR4

     3. Simply adjust this pot for your desired power level.

     It's that easy...

73 de NS8O

Date: Wed, 12 Jul 2000 08:29:20 -0500
From: Bcieslak@ra.rockwell.com
To: qrp-l@lehigh.edu
Subject: [74928] A-1 Operator
Message-ID: <OF9C5C23A5.C999082C-ON8625691A.0049C891@ra.rockwell.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Just Curious, Does NA6E know those who nominated her personally or did the certificate come out of the clear blue.

Brian AE9K

Date: Wed, 12 Jul 2000 09:36:32 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: hubby2K@hotmail.com
Cc: QRP-L@lehigh.edu
Subject: [74929] CB Slider - corrected version
Message-ID: <396C7460.2480@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike,

Since I wrote the article I can say for a fact that the inductors were addressed in the original. Perhaps you over looked them or perhaps they have been dropped as time passed. We did the project several years ago. Here is the skinny on the inductors. The VFO tank coil is a T-50-2 toroid with about 46 turns of #28 wire on it. The other three inductiors were 1 mHy molded RF chokes. You can use any value of choke here as long as it is at least 47 mHy.

73

Date: Wed, 12 Jul 2000 06:39:31 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: na5n@rt66.com
Cc: qrp-l@lehigh.edu
Subject: [74930] Re: QRP-L & New Manager
Message-ID: <200007121335.GAA23927@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:44 PM 7/11/2000 -0600, NA5N wrote:

>
> I'm here to tell you these things have been straigtened out and all
> is well in QRP cyberland.

Well, I for one am glad that's all settled :^). Back to the topic of the day....QRP and closely related subjects.

Bob Hightower NK7M

Chandler, AZ
SOC #20
K2 #157/255

http://www.extremezone.com/~nk7m

Date: Wed, 12 Jul 2000 09:42:14 -0400
From: Bill Coleman AA4LR <aa4lr@radio.org>
To: <jamesd1@flash.net>, <qrp-l@Lehigh.EDU>
Subject: [74931] Re: ANTS: Ground Rffect
Message-ID: <1000612094213.JAA20043@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/11/00 8:07 PM, James R. Duffey at jamesd1@flash.net wrote:

>Steve - I think that you should raise the antenna. I would do it in a minute
>if I were you. Take a day off from work to do it. Most of the replies have
>indicated the advantages of lower angle of radiation.
>
>1. You will prabably notice a reduction in noise. Raising the antenna will
>get you further away from local noise sources.

Good point. You'll also be less likely to incur RFI with your neighbors.

>3. The inverted vee configuration will create an less directional pattern.
>This can be good or bad, depending what you want out of an antenna.

Any doublet at less than a quarter wave of height isn't very directional.
Going from the horizontal to inverted V probably compensates for any
directional behavior as a result of the increase in height.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org
Quote: "Boot, you transistorized tormentor! Boot!"
  -- Archibald Asparagus, VeggieTales

Date: Wed, 12 Jul 2000 08:52:12 -0500
From: David Heintzleman <pstrdave@kdsi.net>

To: qrp-l@Lehigh.EDU
Subject: [74932] CW Software
Message-ID: <396C780C.2DA9160@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

does anyone know of software I can use to help a youngster learn cw on a MAC computer? something uncomplicated, not as big as Morse University??

thanks
Dave K8BBM

Date: Wed, 12 Jul 2000 09:58:08 EDT
From: Mercxx@aol.com
To: <qrp-l@lehigh.edu>
Subject: [74933] Thanks
Message-ID: <200007121357.JAA53442@nss4.cc.lehigh.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Good morning,
  I want to thank everyone for the information on QRP homebrew projects. Have a great week.

72
Steve
N4TKP

Date: Wed, 12 Jul 2000 10:03:29 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: Mike WA8BXN <hubby2k@hotmail.com>
Cc: QRP-L@lehigh.edu
Subject: [74934] Re: CB Slider - corrected version
Message-ID: <396C7AB1.44B4@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike,

I'm sorry, did I say 47 mHy, I meant 47 uHy! The 100 uHy chokes at

Radio Shack may be a bit large if they are the old style. I used molded
chokes, a little larger than 1/2 watt resistors! Good luck.

73

Date: Wed, 12 Jul 2000 09:09:52 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: pstrdave@kdsi.net, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74935] Re: CW Software (Mac)
Message-ID: <3.0.2.32.20000712090952.0094fb80@mail.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dave,

>does anyone know of software I can use to help a youngster learn cw on a
>MAC computer?

Check out Morse Mania shareware at:

http://www.blackcatsystems.com/software/morsemania.html

I've used it with a PowerBook 190 and it did OK.

Chuck Carpenter, Point, Rains County, Texas -- EM22cv, RARA #003
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275

Date: Wed, 12 Jul 2000 09:29:21 -0500
From: Charles K Brown <n4so@juno.com>
To: qrp-l@lehigh.edu
Subject: [74936] LOGIKEY K-3 Super CMOS keyer
Message-ID: <20000712.093349.3470.1.n4so@juno.com>

Need someone who has repaired or worked with the
Super CMOS Keyer 3 circuit-- this version is the surface mount technology
version, but the circuit is the same as the August 1995 QST diagram
except the parts are SMT.

Ken Brown N4SO
Mobile, AL EM50tk
NorCal 20 at 5 watts
4 element mono. yagi

_____
YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
http://dl.www.juno.com/get/tagj.

Date: Wed, 12 Jul 2000 11:07:43 EDT
From: "John Pate" <lighthousedx@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [74937] Antenna Question
Message-ID: <20000712150743.14177.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I just moved to New England and am starting to erect a antenna. The bar/garage next to my house has a corragated metal roof. I was planning to attach a mast to the side of the barn to support a antenna (inverted v, vertical, beam). Will the metal roof effect the radiating signal in a bad way? What effect will it have? What if I try to load up the roff as a antenna? All advice appreciated. Thanks, John

_____
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---

Date: Wed, 12 Jul 2000 08:28:14 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: John Pate <lighthousedx@hotmail.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74938] Re: Antenna Question
Message-ID: <Pine.GSO.4.10.10007120816410.5911-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 12 Jul 2000, John Pate wrote:

> Will the metal roof effect the radiating signal in a bad
> way?

Hi John,

You really need to try it to find out!

It might hurt or it might even help. But you can never

be really sure until you give it a try.

> What effect will it have?

Who knows?

As an example, I had my 160m inverted Vee with the apex at
about 70'. One end was tied off just under the barn roof
which was metal. In fact, the point I tied it off to was
a vertical 3" pipe frame. The other end ws tied off to some
sage brush, about 1' off the ground.

It worked fine. (48 states on 160m QRP)

Could it have worked better? Again, who knows!

It did outpreform my attemps at loading the tower as a vertical!

(Roof size for those who might wonder..... about 80' x 30').

> What if I try to load up the roof as a antenna?

That would be interesting to try. I can think of several
areas where there might be problems but it would still
be fun to tell someone what your antenna was!

Kinda like using a bed springs or window screen!

And always keep this in mind..... ANY ANTENNA IS BETTER
THAN NO ANTENNA!

So, put something up and then start trying to make it
better!

OK, back in my hole.....

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.......Nevada....NRA LIFE....
.....SOWP 5545M.......WHINERS #1........ZOMBIE #18.....
....Visit my Home Page.....http://www.qsl.net/ku7y/....

Date: Wed, 12 Jul 2000 10:54:48 -0500
From: "George , W5YR" <w5yr@att.net>
To: lighthousedx@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74939] Re: Antenna Question
Message-ID: <396C94C8.4620E351@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John, one problem that you can run into with old metal roofing is the
lack of sound electrical connection between the individual sheets of
metal. At each joint, you have the possibility for the corrosion, etc. to
form a neat r-f rectifier and generate all manner of RFI. At QRP levels
this is unlikely to be a problem, I would think.

I would try most other things before trying to load up the roof!   ;^)

72/73, George
Fairview, TX   30 mi NE Dallas in Collin county   QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452   RVing since 1972   Kachina #91900556
(12/99)

John Pate wrote:
>
> I just moved to New England and am starting to erect a antenna. The
> bar/garage next to my house has a corragated metal roof. I was planning to
> attach a mast to the side of the barn to support a antenna (inverted v,
> vertical, beam). Will the metal roof effect the radiating signal in a bad
> way? What effect will it have? What if I try to load up the roff as a
> antenna? All advice appreciated. Thanks, John

Date: Wed, 12 Jul 2000 12:16:04 -0400
From: John Wagner <john@neknetwork.com>
To: unlisted-recipients:; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74940] Re: Antenna Question
Message-ID: <396C99C4.DDA152BB@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The message is more of a me too then anything...

For my first antenna, I cut it, checked, cut it, checked, cut it, checked, worried about it's location, made everything perfect (so I thought).... etc.... same for my second. I took a lot of time fiddling before actually using them. My third antenna was "The Loop" and for that one I put up as much wire as possible, as high as possible. BTW, the loop is down right now, for those following the saga. What I learned from my first antenna to my current (a ladder line fed doublet w/34' legs) is nicely wrapped up in Ron's statements below. I do want to reiterate and color a little around what he said.

Put something (anything) up and try it. Despite the fact that computer modeling might tell you your antenna isn't good, it will probably perform better then you expect. If you have something unusual about your antenna installation (like a huge metal roof!), TRY IT. Plot your contacts and see if there is any noticeable pattern. Fine tune the location by moving it and trying it again. There is really only one way to accurately tell how a given antenna will perform at a given location; try it. I'm finding that my 34' doublet is a poor performer at 100 watts on 20 meters, and a miserable performer on 20m at 5 watts. This was pretty much expected, fwiw. I plan on adding 30 feet of wire to each leg to bring it up to snuff on 80m and 20m. I anticipate it won't work good on 40 and 15 after this, but I'll still try it and see.

My neighbor has a 12 acres of his land surrounded by an electric fence. I plan to go up there and try to tune that just to see what will happen (after he turns it off of course!). Who knows, might be the ultimate loop?!

It's only through experimentation that you will really know how well a given antenna will perform for you at your location. The beauty of wire antennas is that they're cheap and reusable in different configurations. Perfect for experimenting! Would I try to tune a tin roof? Heck yes.... I'd try to tune-a-fish... ta-da-crash.

73,

John, KB1ENS

Monte Stark wrote:
>
>
> Hi John,
>
> You really need to try it to find out!
>

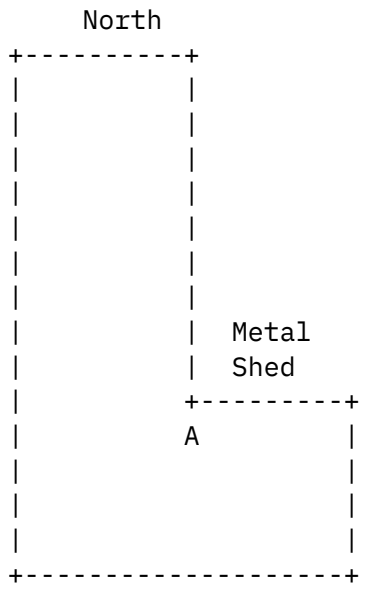
...
>
> > What effect will it have?
>
> Who knows?
>
...
>
> And always keep this in mind..... ANY ANTENNA IS BETTER
> THAN NO ANTENNA!
>
> So, put something up and then start trying to make it
> better!
>
> OK, back in my hole.....
>
> 73, Ron
>
> ....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
> ....ku7y@qsl.net....SOC #2.......Nevada....NRA LIFE....
> .....SOWP 5545M.......WHINERS #1........ZOMBIE #18.....
> ....Visit my Home Page.....http://www.qsl.net/ku7y/....

--
John Wagner - john@neknetwork.com
Web page: http://www.neknetwork.com
Personal Web page: http://www.together.net/~jwag

Date: Wed, 12 Jul 2000 10:22:05 -0600 (CST)
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74941] Question about radials
Message-ID: <Pine.OSF.4.20.0007121009070.8614-100000@duke.usask.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

I have a Hy-Gain AVQ14 and it recommends either a radials or three
equidistant 8 ft. grounds (which apparently are not as good as the
radials). I have one ground attached to the AVQ14 but am thinking about
using a combination of the ground rod and radials.

The problem is that I don't have the room necessary to place the radials
in any of the configurations Hy-Gain specifies. Basically I have an area
that is shaped as follows (if this does not look right on your screen
please use a fixed font...)



The distance from the antenna "A" to the edge of the northern edge of the area is about 40ft. (13m?) At its widest place the area is about 30 ft. (10m) east to west. From the antenna to the southern edge is about 15 ft. (5m). The antenna is supposed to work on the 10, 15, 20 and 40 M bands.

My thoughts are to just put as any radials in the area as I can, using various lengths from 10m (40m/4) to 2.5m (for the 10m) band. Is this a resonable approach? There seems to be a general rule of thumb that says "put as many radials down as you can" and I am trying to follow that approach.

Any advice would be greatly appreciated!!!

Brian.

Brian Buydens
Veterinary Electronic Data Specialist
Computing Services, University of Saskatchewan
email: Brian.Buydens@usask.ca
http://duke.usask.ca/~buydens
VE5RDV

Did you hear about the two antennas that got married? The wedding was a disaster but the reception was great!

Date: Wed, 12 Jul 2000 12:34:33 EDT
From: Dean W Manley <kh6b@juno.com>
To: qrp-l@lehigh.edu
Subject: [74942] Postpone
Message-ID: <20000712.063911.5391.6.kh6b@juno.com>

Hi Group,

I made several attemps to stop my incomming
mail. Finally got it. Sorry for the bandwidth.

I'm going on 4-week's vacation, starting today.
Should be in Michigan with my K2 and stuff.
Hope to be in the August Spartan Sprint from
MI.

Thanks again.

Aloha,
Dean KH6B
Hilo Hawaii

_____
YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
http://dl.www.juno.com/get/tagj.

Date: Wed, 12 Jul 2000 11:36:17 -0500
From: "George , W5YR" <w5yr@att.net>
To: john@neknetwork.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74943] Re: Antenna Question
Message-ID: <396C9E81.71308C06@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

An interesting viewpoint, John - more power to you!

I would offer the comment that if you are having problems making contacts with a 34 ft dipole on 20 meters with 100 watts, then something is wrong. I suggest that you work through the entire system and make sure that everything is like you want it to be. You didn't say how high the antenna is, but anything up around 20 ft or higher should be working "good enough" for more contacts than you probably want to fool with.

I would guess that the majority of the stations on 20 meters worldwide are using nothing better than a dipole and 100 watts; many are using far worse. I know that I have never had any particular problems with a similar setup at a number of different locations. Even with 5 watts on QRP, a fair share of the Foxii have surrendered their pelts to the Yellow Rose.

Keep us posted!

72/73, George
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556
(12/99)

John Wagner wrote:
> I'm finding that my 34' doublet is a poor performer at 100 watts
> on 20 meters, and a miserable performer on 20m at 5 watts. This was
> pretty much expected, fwiw.

Date: Wed, 12 Jul 2000 12:39:17 -0400
From: "steve" <sblary@bellsouth.net>
To: <w5yr@att.net>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [74944] RE: Antenna Question
Message-ID: <000001bfec1f$b940db80$7464a8c0@AREA51>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="us-ascii"
Content-Transfer-Encoding: 7bit

what about grounding the roof and using it as a ground plane for the vertical?

Steve, kd4liv

Date: Wed, 12 Jul 2000 11:45:09 -0500
From: "George , W5YR" <w5yr@att.net>
To: buydens@duke.usask.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74945] Re: Question about radials
Message-ID: <396CA095.FC2CAA6@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Brian.Buydens@usask.ca" wrote:

>
> My thoughts are to just put as many radials in the area as I can, using
> various lengths from 10m (40m/4) to 2.5m (for the 10m) band. Is this a
> resonable approach? There seems to be a general rule of thumb that says
> "put as many radials down as you can" and I am trying to follow that
> approach.

That is what I would try first, Brian. You might also look at tieing onto the metal shed, but that has the drawback that if you run much power at all (and sometimes 5 watts is too much) there is the possibility of RFI generated by corroded joints in the metal structure. Also, if the building very tall and very close to the antenna, it can seriously detune the antenna and introduce unwanted loss.

Looking at your plat, and you did a great job of ASCII art, have you considered moving the antenna to the upper left corner on the North end to get it away from the building? Another concept would be to mount the antenna on top of the shed and let the roof serve as part of your ground plane, aided by wire radials as well. Again, the RFI problem can arise, but QRP power levels might avoid it.

Not any easy installation to dope out - guess and test will probably be your best approach since things like this can seldom be modeled or "engineered" with any degree of success.

72/73, George
Fairview, TX   30 mi NE Dallas in Collin county   QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452   RVing since 1972   Kachina #91900556
(12/99)

Date: Wed, 12 Jul 2000 12:58:04 -0400
From: "J. Ervin Bates" <w8erv@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74946] A Piece of Amateur Radio History
Message-ID: <00ed01bfec22$590e0f00$8325143f@win98>

Well, I have to share this with you all. I was just informed that I had the winning bid, on Ebay, for a certified authentic autograph of the late Sen. Barry Goldwater <SK>. Doesn't matter how much (not that much), but I will have it framed and it will hang proudly in my shack along with some other Amateur Radio collectibles.

I only wish I had worked him before he became a Silent Key. Would anyone have a scanned copy of one of his cards? I think that would look nice in the frame with his signature.

Any help would be appreciated and, as always, thanks for your time.

73,
Erv W8ERV

HamFair2000 is coming...ask me about it!
"Dare to Dream-It Sets Your Spirit Free!"

10-10# 70639 - QRP-ARCI# 9702 - SOC# 41
QRP-L #1569 - NorCal Zombie #236 - Worked All
El Paso #033/1999 - Member, MI DX Assn.
MI QRP Club, M-1688 - FPqrp- 50 - Member ARRL
Rag Chewers' Club - WAC -

Date: Wed, 12 Jul 2000 11:56:34 -0500
From: Dave Sjolin <sjolin@swbell.net>
To: buydens@duke.usask.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74947] Re: Question about radials
Message-ID: <396CA341.D9E44493@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

"Brian.Buydens@usask.ca" wrote:

>
> My thoughts are to just put as any radials in the area as I can, using
> various lengths from 10m (40m/4) to 2.5m (for the 10m) band. Is this a
> resonable approach? There seems to be a general rule of thumb that says
> "put as many radials down as you can" and I am trying to follow that
> approach.
>
> Any advice would be greatly appreciated!!!

Brian, assuming you are ground mounting the antenna, I would forget the manufacturer's instructions (cant believe I said that) and put down 12 to 30 radials of various lengths in the space you have available. I doubt that you need more than one ground rod and thats more for safety than for use as an rf ground. Three radials is really too few unless the antenna is placed on a roof or mast of some kind.

Given the lack of space to the NE, you can expect that your signal will be weaker in that direction than it will be in other directions where radials are laid out. Also the metal shed may absorb some radiation in that direction and it may make tuning the antenna difficult because the antenna is designed for use in the clear, not next to a large metal object. (DEPENDING ON WHERE IN THE US YOU ARE LOCATED AND HOW INTERESTED IN DX YOU ARE, NOT BEING ABLE TO PUT A SIGNAL EFFECTIVELY TO THE NORTH EAST COULD BE A PROBLEM)

That said, any antenna is better than no antenna. Put it up and try it. If it doesnt work well enough, try something different.

BTW, when radials are added to a ground mounted vertical they do NOT need to be a specific length altough you will get the best performance with many radials that are quarter wavelength long at lowest frequency. If the antenna is up in the air, then you DO need to cut the radials to a specific length for each band you plan to use (except 40/15) where one for forty will work on 15.

Good luck
Dave, N0IT

Date: Wed, 12 Jul 2000 10:30:03 -0700
From: John Kuklewicz N7ZN <kukl@cybrquest.com>
To: buydens@duke.usask.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74948] Re: Question about radials
Message-ID: <396CAB1B.48D9FE41@cybrquest.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Brian, based on my experience with verticals:

The more and longer wire you can put down, the better,
With a few qualifications:

I am assuming you plan to ground mount this antenna
(my Butternut is). BTW: the bencher/butternut site has some
really good engineering type advice about radial systems.
http://www.bencher.com/pdfs/00361ZZV.pdf
http://www.bencher.com/pdfs/00803ZZV.pdf
http://www.bencher.com/pdf_download.html))

If you can only put down a few wires, there is not much
need to make them long. (Conversely, if the wires have to
be short, no need to put down a lot of them.) The current QST
has a good article on this.

Don't bother trying to cut the radials to 'resonant' lengths
because the ground will just detune them anyway. For elevated
radials (above 8' or so) tuning the radials to 1/4 wavelength
is a good idea.

You don't need to bury the radials except for aesthetic
and/or safety reasons. (Mine just lay on top of the ground
and work fine.) The ground rod(s) are really just there to
provide static discharge/lightning protection.

What you are trying to do is provide an easy, low RF impedance
way for the return currents to get back to the antenna. So
the spacing between the wires is important - as the wires get
longer the separation gets bigger so additional wires are of
benefit.

I have read some literature that seems to indicate that a
perimeter wire does help. Kind of makes sense - a large disk of
metal would make a great radial system, and large areas of
metal mesh also work really well, so maybe adding cross ties
along the length of the radials can help. (See the last point
above.)

Lastly, if you are ground mounting the antenna next to the metal
shed, you will probably have odd SWR problems (some bands worse
than others) and I would expect some irregularities in the
radiation pattern.

Also, one good news/bad news aspect of all this - putting a good

ground/radial system under a physically short vertical antenna will
improve its radiation efficiency (good news). But, this efficient
ground will also tend to make the antenna narrow bandwidth on those
bands where it is physically short. (e.g. I put 63 radials, each
52 ft long under my 26' tall Butternut. On 80m the 2:1 SWR bw is
about 20kHz and about 120kz on 40m). This because the low ground
loss no longer swamps out the vertical's input impedance.

But, as other have noted - anything is better than nothing.

Vy 73;

John N7ZN

"Brian.Buydens@usask.ca" wrote:
>
> I have a Hy-Gain AVQ14 and it recommends either a radials or three
> equidistant 8 ft. grounds (which apparently are not as good as the
> radials). I have one ground attached to the AVQ14 but am thinking about
> using a combination of the ground rod and radials.
>
> The problem is that I don't have the room necessary to place the radials
> in any of the configurations Hy-Gain specifies. Basically I have an area
> that is shaped as follows (if this does not look right on your screen
> please use a fixed font...)
>
>   North
> +----------+
> | |
> | |
> | |
> | |
> | |
> | |
> | |
> | | Metal
> | | Shed
> | +---------+
> | A |
> | |
> | |
> | |
> +--------------------+
>
> The distance from the antenna "A" to the edge of the northern edge of the
> area is about 40ft. (13m?) At its widest place the area is about 30

> ft. (10m) east to west. From the antenna to the southern edge is about 15
> ft. (5m). The antenna is supposed to work on the 10, 15, 20 and 40 M
> bands.
>
> My thoughts are to just put as any radials in the area as I can, using
> various lengths from 10m (40m/4) to 2.5m (for the 10m) band. Is this a
> resonable approach? There seems to be a general rule of thumb that says
> "put as many radials down as you can" and I am trying to follow that
> approach.
>
> Any advice would be greatly appreciated!!!
>
> Brian.
>
> Brian Buydens
> Veterinary Electronic Data Specialist
> Computing Services, University of Saskatchewan
> email: Brian.Buydens@usask.ca
> http://duke.usask.ca/~buydens
> VE5RDV
>
> --
> Did you hear about the two antennas that got married? The wedding was a
> disaster but the reception was great!

Date: Wed, 12 Jul 2000 13:38:00 -0400
From: John Wagner <john@neknetwork.com>
To: "George , W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74949] Re: Antenna Question
Message-ID: <396CACF8.245C88DF@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"If nothing else, be interesting." ;)

I should have probably qualified that "poor" performance statement. It's
an OK performer on 20, but it's MUCH, MUCH, MUCH better on 15m. It tunes
very "sharp" on 20, and literally flat on 15. As far as contacts and sig
rpts go, I've made my fair share with 100w on 20, but few with 5w. RST
on 20 w/100w usually gets me a 569 or 579 and have had a few 559's. On
15m however, I can pretty much sneeze at the thing and get a QSO and a
5nn RST. I've worked Moscow many times with 5w on 15m no problem.

I suspect the poor performance on 20m is because the 34' doublet abt one

wl on 20m. On 15m, it's one and half wl, which is why I think it performs better there. If I'm mistaken in the assumption I'd like to know.

FWIW, the ant up abt 20' or so.

So, it works on 20m, just not nearly as good as 40m, 30m and 15m. I don't spend enough time on other bands to comment. I'll keep modifying it, turning it, moving it, whatever. Antenna's are a lot of fun, it's always a thrill to do a mod or two and run into the shack to try it!

73,

John, KB1ENS

"George , W5YR" wrote:
>
> An interesting viewpoint, John - more power to you!
>
> I would offer the comment that if you are having problems making contacts
> with a 34 ft dipole on 20 meters with 100 watts, then something is wrong.
> I suggest that you work through the entire system and make sure that
> everything is like you want it to be. You didn't say how high the antenna
> is, but anything up around 20 ft or higher should be working "good
> enough" for more contacts than you probably want to fool with.
>
> I would guess that the majority of the stations on 20 meters worldwide
> are using nothing better than a dipole and 100 watts; many are using far
> worse. I know that I have never had any particular problems with a
> similar setup at a number of different locations. Even with 5 watts on
> QRP, a fair share of the Foxii have surrendered their pelts to the Yellow
> Rose.
>
> Keep us posted!
>
> 72/73, George
> Fairview, TX   30 mi NE Dallas in Collin county   QRP-L 1373
> Amateur Radio W5YR, in the 54th year and it just keeps getting better!
> R/C since 1964 - AMA 98452   RVing since 1972   Kachina #91900556
> (12/99)
>
> John Wagner wrote:
> > I'm finding that my 34' doublet is a poor performer at 100 watts
> > on 20 meters, and a miserable performer on 20m at 5 watts. This was
> > pretty much expected, fwiw.

--
John Wagner - john@neknetwork.com

Web page: http://www.neknetwork.com
Personal Web page: http://www.together.net/~jwag

Date: Wed, 12 Jul 2000 13:45:29 -0400
From: Bill Coleman AA4LR <aa4lr@radio.org>
To: <buydens@duke.usask.ca>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74950] Re: Question about radials
Message-ID: <1000612134529.NAA09381@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/12/00 12:22 PM, Brian.Buydens@usask.ca at buydens@duke.usask.ca wrote:

>My thoughts are to just put as any radials in the area as I can, using
>various lengths from 10m (40m/4) to 2.5m (for the 10m) band. Is this a
>resonable approach? There seems to be a general rule of thumb that says
>"put as many radials down as you can" and I am trying to follow that
>approach.

If your radials are on or in the ground, the length of the radials isn't critical. Put down as many and as long as your space allows. They don't even have to be perfectly straight.

30 to 120 radials should work fine. Put one ground rod at the antenna mount for static discharge protection.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org
Quote: "Boot, you transistorized tormentor! Boot!"
  -- Archibald Asparagus, VeggieTales

Date: Wed, 12 Jul 2000 11:51:01 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [74951] Major Flare today too!
Message-ID: <Pine.SUN.4.10.10007121143120.3880-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

The same region of the sun that produced yesterday's major X1 flare
(region 9077) produced another MAJOR X2 FLARE this morning, about
1030 UTC.

The shockwave from this flare will hit the earth around July 15th,
while the X1 yesterday will hit us on July 14th. This could keep
Planet Earth in a major to severe geomagnetic storm pretty much
the entire weekend.

Right now ... conditions are stable and nice. High solar flux
(~240) for good high band work, and yesterday's geomagnetic storm
is over for quiet conditions right now. Next couple of days is a
good time to work all bands before the 2nd punch of this solar
activity hits us, starting on 14 JUL.

72, Paul NA5N

Date: Wed, 12 Jul 2000 12:52:45 -0500
From: Richard Matthews <prm@hiwaay.net>
To: w8erv@email.msn.com, qrp-l@lehigh.edu
Subject: [74952] Re: A Piece of Amateur Radio History
Message-ID: <3.0.1.32.20000712125245.00ba5140@hiwaay.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:58 PM 7/12/00 -0400, you wrote:
>Well, I have to share this with you all. I was just informed that I had the
>winning bid, on Ebay, for a certified authentic autograph of the late Sen.
>Barry Goldwater <SK>. Doesn't matter how much (not that much), but I will
>have it framed and it will hang proudly in my shack along with some other
>Amateur Radio collectibles.
>
>I only wish I had worked him before he became a Silent Key. Would anyone
>have a scanned copy of one of his cards? I think that would look nice in
>the frame with his signature.
>
>Any help would be appreciated and, as always, thanks for your time.
>
>73,
>Erv W8ERV
.....

How about an autographed picture of Senator Goldwater at his op position?

http://www.vwoa.org/images/K7UGA.jpg

Richard, WA4NWW

Date: Wed, 12 Jul 2000 14:02:55 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [74953] Nick Kennedy, WA5BDU
Message-ID: <Pine.3.89.10007121452.A14084-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sorry to post to the reflector but no e-mail address supplied.

Nick, I received your request for the QRP-L Archive CD and will deliver
yours to the P.O. this afternoon. Hope you find it useful!

       73,

                    ,'' '',
     Bob Patten, N4BP   (0 0)   Plantation, FL
_____________________________oOOo-(_)-oOO_____________________________________

                         E-Mail: n4bp@bc.seflin.org
                    Web Page: http://www.qsl.net/n4bp
                    Brass Pounder BBS: (954) 472-7715
                SOC #1 Whiners #6

Date: Wed, 12 Jul 2000 15:37:59 EDT
From: Wb8siw@aol.com
To: qrp-l@lehigh.edu
Subject: [74954] How to unsubscribe?
Message-ID: <4a.80d7404.269e2317@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Can anyone tell me how to unsubscribe. I've made several attempts with no
success. Thanks, Jim, WB8SIW

Date: Wed, 12 Jul 2000 16:18:49 -0400

From: hattonte@gdls.com
To: qrp-l@Lehigh.EDU
Subject: [74955] ANT: Ladderline
Message-ID: <OF677442C0.5B36F1A0-ON8525691A.006EFA5E@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Gents,

I want to use ladder line with my QRP xcvr, but I need a tuner, and I want to brew it myself. Does anyone have a list of www sites that have balanced tuner info? I do know abt Larry Cebik's page of course, and I have done a search on the keyword, but there's not too much out there (unless you just want to tune your guitar).

Tnx fer bandwidth

de Terry W1QF/8

Date: Wed, 12 Jul 2000 15:29:15 -0500 (CDT)
From: Joe Reed <joe@n9jr.dyndns.org>
To: "Paul Harden, NA5N" <na5n@rt66.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74956] Re: Major Flare today too!
Message-ID: <Pine.LNX.4.05.10007121524170.30046-100000@n9jr.dyndns.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 12 Jul 2000, Paul Harden, NA5N wrote:

> Gang,
> The same region of the sun that produced yesterday's major X1 flare
> (region 9077) produced another MAJOR X2 FLARE this morning, about
> 1030 UTC.

Paul,
Thanks for the great news! While HF may suffer, if the gods smile upon us we may have the blessed aurora on 144/222MHz. And with intense aurora very low power = excellent DX. (At least for those of us in the northern latitudes...)

Joe N9JR
n9jr@arrl.net

Date: Wed, 12 Jul 2000 16:40:02 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: mightymik2@home.com
Cc: qrp-l@lehigh.edu
Subject: [74957] Re: SM protoboards
Message-ID: <200007122117.RAA01739@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> >   A stamp for a few copies would be the best.

I think the main problem using a stamp would be with smudging. Then
you still have the problem of drawing connecting lines.

But why go though all this trouble anyway? Get a decent pcb layout
program like Circad, some toner transfer flim like PnP Blue and do it
right. Now you can either layout and make a proper SMT board, or make
a number of various SMT IC carrier boards if you need to tack one
into a quick and dirty protoype.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 12 Jul 2000 14:38:45 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [74958] Re: ohr 100a
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F02BE5F74@hq-expo2.filenet.com>

..er, that should not have been "creep out of the lower end of the band.."
it should have been "know where the band edge was..".

..what *was* I thinking?

W. H. Phinizy, K6WHP
Principal Engineer
FileNET Corporation

Date: Wed, 12 Jul 2000 16:44:25 -0500
From: Dave Sjolin <sjolin@swbell.net>
To: Qrp-l Reflector <qrp-l@Lehigh.EDU>, VHF Reflector <vhf@W6YX.stanford.edu>
Subject: [74959] CNN: Solar eruptions could spark 'northern lights' this week
Message-ID: <396CE6B9.45E1E435@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

FYI: Repost from CNN website. CME could reach earth as early as 11 pm EDT tonight. They give 40% probability of major geomagnetic storm between tonight and Friday. I thought the second CME was going to arrive Friday? Oh well. Decent chance of Aurora this week. Turn those vhf antennas north and gl.

de Dave, N0IT

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Solar eruptions could spark 'northern lights' this week

July 12, 2000
Web posted at: 4:02 p.m. EDT (2002 GMT)

GREENBELT, Maryland (CNN) -- A spacecraft that monitors solar activity has detected two strong gas eruptions from the sun that scientists say could trigger unusually strong displays of the space phenomenon known as the aurora borealis, or "northern lights," between Wednesday night and Friday.

The solar eruptions -- called coronal mass ejections (CMEs) -- were observed by the Solar and Heliographic Observatory (SOHO), a satellite launched in 1995.

CMEs are expelled through space at speeds of 600 miles per second or more.
The high-energy solar winds they produce have been known to temporarily alter

Earth's magnetic field -- resulting in more frequent streaks of the eerily
beautiful, usually greenish-colored northern lights seen in high latitude locations.

While CMEs are also linked to occasional disruptions of some satellite
communications, no such warnings have yet been issued for these eruptions.

The first highly charged bursts of solar winds could arrive as early as 11 p.m.
EDT Wednesday, said experts at NASA's Goddard Space Flight Center in
Greenbelt, Maryland.

Scientists from the U.S. National Oceanic and Atmospheric Administration
estimated there is a 40 percent chance of "major" geomagnetic activity between
Wednesday night and Friday.

That activity could bring brighter than normal northern lights displays in the
regions of Canada, Scandinavia, and Russia where they are a fairly common
nighttime sight.

But there is a chance, presuming clear weather, that the lights may be seen over
a much wider area -- possibly reaching to the Mediterranean region and
southern United States, as occurred following a CME in early May.

The sun is at the peak of an 11-year cycle of solar flare, CME, and sunspot
activity.

The SOHO orbiting observatory is a joint effort of NASA and the European
Space Agency.

Date: Wed, 12 Jul 2000 15:08:20 -0700
From: "K7FD" <cqdx@teleport.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [74960] QRP ARCI MilesPerWatt Award
Message-ID: <000b01bfec4d$b0e50820$a78c80a7@lincoln.k12.or.us>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just a quick word to say how beautiful this award is; this is a quality bit of work and shows the effort QRP ARCI put into printing it! Thanks for the award and thanks to those responsible for making it available. I will hang it proudly!

73 John K7FD

Date: Wed, 12 Jul 2000 15:01:55 -0700
From: Howard Myers <howardw7ilw@cableone.net>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [74961] Summer Foxhunt #2
Message-ID: <B59238E2.11A0%howardw7ilw@cableone.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Has the Summer Foxhunt #2 preliminary log been posted? Did I accidentally click delete?

Howard - W7ILW - Prescott,AZ

Date: Wed, 12 Jul 2000 18:19:17 -0400
From: tom palmer <n1tp@worldnet.att.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [74962] FOX: HUNT NUMBER TWO - PRELIM LOG.
Message-ID: <396CEEE5.3661DDAA@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello, all Fox Hounds,

Anyone need a copy of the Preliminary Log
for Hunt Number TWO (AE2T)? Drop me a line and I'll
e-mail it to you ASAP. It's 99.9% complete and correct.

Tom, N1TP
Naples, FL
QRP-L 1317

Date: Wed, 12 Jul 2000 18:27:35 -0400
From: Richard Powell <ripowell@mpna.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [74963] [FIELD OPS] David Crocket State Park
Message-ID: <01BFEC2E.DA70A790.ripowell@mpna.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

stand by for a special announcement.......

SPECIAL ANNOUNCEMENT!!!!!

This saturday, KC8OCO (Flying Pigs QRP Club Station) will be activated from

    David Crocket State Park (TN)

    from 2300Z 7/15/00 until 0300Z 7/16/00
    40M or 20M (decision made at time of operation)
    Standard FPQRP freq +/- QRM
    Special cirtificates will be awarded to all who make contact!

72 & oo's
/rick

-
Richard Powell, WB6JBM, TENTEN 13044, QRP-L 1118,
FPQRP-2, QRP-ARCI 10414
Senior Network Engineer, Belcan IT Division
MCSE, CNA.
ripowell@mpna.com   http://www.mpna.com/ripowell
ICQ 39245532

Date: Wed, 12 Jul 2000 17:27:16 -0500
From: Jay Freeman <jay@j-freeman.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [74964] Re: FS: FT-990DC & FT-530 w/acc - update
Message-ID: <396CF0C4.604DFF5B@j-freeman.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Howdy,

The FT-990 is sold, I still have:

> Yaesu FT-530 VHF/UHF HT with MH-29 remote control/display speaker mic,
> original box, manual, and 7.2v 2500mAH NiMH battery and quick charger
> from W&W Associates. The battery is about 15 months old and has been
> charged in the neighborhood of 50 to 60 times (maybe less). I used this
> rig as a mobile in a company car and only had to charge it once a week
> or so. Asking $300 + actual shipping obo.

Thanks agn es 73,

Jay
--

Jay Freeman - WT9S
maintainer of Resonator-L, info at:
http://www.j-freeman.net/mailman/listinfo/resonator-l
info on all lists hosted here:
http://www.j-freeman.net/mailman/listinfo

Date: Wed, 12 Jul 2000 15:55:46 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: ripowell@mpna.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74965] Re: [FIELD OPS] David Crocket State Park
Message-ID: <396CF772.ED2CF193@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Is there a certificate for WAFP (Worked All Flying Pigs)?

Phil

Richard Powell wrote:

>
> stand by for a special announcement.......
>
> SPECIAL ANNOUNCEMENT!!!!!
>
> This saturday, KC8OCO (Flying Pigs QRP Club Station) will be activated from
>
>   David Crocket State Park (TN)
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>   Standard FPQRP freq +/- QRM
>   Special cirtificates will be awarded to all who make contact!
>
> 72 & oo's
> /rick
>
> -
> Richard Powell, WB6JBM, TENTEN 13044, QRP-L 1118,
> FPQRP-2, QRP-ARCI 10414
> Senior Network Engineer, Belcan IT Division
> MCSE, CNA.
> ripowell@mpna.com   http://www.mpna.com/ripowell
> ICQ 39245532

Date: Wed, 12 Jul 2000 16:02:21 -0700
From: "John Moriarity" <k6qq@hdo.net>
To: <hattonte@gdls.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74966] Re: Ladderline
Message-ID: <009501bfec55$3d29fb40$fc424cd1@k6qq>
MIME-Version: 1.0
Content-Type: text/plain;
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> I want to use ladder line with my QRP xcvr, but I need a tuner, and I
want
> to brew it myself.   Does anyone have a list of www sites that have
> balanced tuner info...

Do a search on "Z-MATCH TUNER" and you'll get lots of
sites. The ones referencing Charlie Lofgren are best.

72,

John, K6QQ

End of QRP-L Digest 1880
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